List of publications

1. "Hot electron transmission in metals using epitaxial $NiSi_2$/n-Si(111) interfaces",
   S. Parui, B. Wit, L. Bignardi, P. Rudolf, B. Kooi, B. J. van Wees and T. Banerjee,
   Appl. Phys. Lett. **99**, 032104 (2011).

2. "Nanoscale hot electron transport across Cu/n-Si(100) and Cu/n-Si(111) interfaces",
   S. Parui, J. R. R. van der Ploeg, K. G. Rana and T. Banerjee,
   Physica Status Solidi (Rapid Research Letters) **5**, 388 (2011).

3. "Comparison of hot-electron transmission in ferromagnetic Ni on epitaxial and polycrystalline Schottky interfaces",
   S. Parui, K. G. Rana, L. Bignardi, B. J. van Wees and T. Banerjee,
   Phys. Rev. B **85**, 235416 (2012).

4. "Spin transport in metal and oxide devices at the nanoscale",
   S. Parui, K. G. Rana and T. Banerjee,
   Electron Devices Meeting (IEDM), 2012 IEEE International, 11.4.1-11.4.4, (2012).

5. "Probing electron transport across a LSMO/Nb:STO heterointerface at the nanoscale",
   K. G. Rana, **S. Parui** and T. Banerjee,
   Phys. Rev. B **87**, 085116 (2013).

6. "Hot electron transport in a strongly correlated transition metal oxide",
   K. G. Rana, T. Yajima, **S. Parui**, A. F. Kemper, T. P. Devereaux, Y. Hikita, H. Y. Hwang and T. Banerjee,
   Sci. Rep. **3**, 1274 (2013).

7. "Probing hot electron transport across an epitaxial Schottky interface of $SrRuO_3$ /Nb:$SrTiO_3$",
S. Roy, A. M. Kamerbeek, K. G. Rana, **S. Parui** and T. Banerjee,
Appl. Phys. Lett. **102**, 192909 (2013).

8. "Hot electron attenuation of direct and scattered carriers across an epitaxial Schottky interface",
S. Parui, P. S. Klandermans, S. Venkatesan, C. Scheu and T. Banerjee,
under consideration in *J. Phys.: Condens. Matter*.

9. "Evidence of spin scattering and collection of hot electrons at different conduction minima in Si",
S. Parui, K. G. Rana and T. Banerjee,
under review in *Appl. Phys. Lett.*

10. "Measurement of nanoscale hot hole attenuation length in Cu for directly injected and excited hot holes across Cu/p-Si(100) interface",
S. Parui *et al.*, in preparation.

11. "Spin-dependent scattering in graphite nanoflakes",
S. Parui *et al.*, in preparation.

12. "Temperature sensitive transport characteristics of graphene/n-Si interfaces",
S. Parui *et al.*, in preparation.

13. "Nanoscale hot carriers transport across graphene/n-Si interfaces",
S. Parui *et al.*, in preparation.